AMERY

1969.

D

L. McLEOD

B.M.R.

Magnetic Declination 70°W 0°—

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all bearings magnetic.
All specs. provided by I. R.

1. R 1.
69°45'S, 73°44'E.

1. R 265
69°45'S, 73°44'E

10 Jan 1969. Landing Bluff.

601. North half of Landing Bluff is c.g. granite, ℂ cream-white perthite phenocrysts up to 1.0 cm long, mostly blocky, and forming 70 to 90% of the rock, ℂ fine interstitial, ~~is~~ qtz, rather more than half. (Spec. 1.) Mostly massive, but near S.th end of northern outcrop, a very poor foln. of phen. Landing North, dip abt 20° E.

Rock very weathered and friable, frost-shattered fragments of crystals very common on flat surfaces, and forming slopes of fine scree. Outcrop slabby & tor-like.

Granite here cut by dykes of darker & finer grained material (Spec 65) abt ½

L.R. #66
69°45'S, 73°44'E.

metre wide, vs. seen apparently sharp, mg. fld phen. in fg. qtz, fld + biot. Roughly constant width + trend, trend abt N 20 E, dip pos. vert.

These dykes in turn cut by white apl. dykes, up to 5 cm wide, sharp + fld, constant width, trend abt N 35° E, dip near vert. (Apl 66/37)

Rare inclusions in apl dyke, rounded, up to ½ metre including fg. biot gn & thumbnail size fld. p'phyr. ts, fine apl.

Several blows of lamb sts, probably 1-2 metres across. Also v. cg. pg. dykes consisting of fine pertite, graphic qtz + biot. Dyke dist + north,

at north end
but one trending east, cutting (possibly) a N. trending one; dips seem very steep. Possibly zoned, E v. cg. material in centre and cg. non gneissic material at margin, but O'crop not good. One dyke E good but lenticular form parallel to its trend.

Several blocks of fresh material, mid. granitic type like Count. rock, and gneiss of Wild Sm + cg. Chamouhic Boulder type. Most [illegible] much fresher than E. rock. Possibly E. R was weathered before last glacial maximum covered mountain.

F

1.R.2 6928
70°38'S 72°01'E

Photos M 861/0-6
black+white
Colour 195/12-14

1-4 from Gilroch Jr. etc.

Photos on flight south - Mt. Whitney
Mt. Williamson thrust from east (two)
Matterhorn Peak (light patch)
from ENE.
Pinchot Peak from NNE, Gilroch
Jr. to right, from Owens
Lowering Pass.
Kaweah Peak from N.N.E. Gilroch Jr.
from NNE, N. Gilroch Jr.
from West. 195/12, 13
Glacier Peak Pinchot from N.N.E. 14
Glacier Peak Jr., E. Gilroch
from NNE.

S. end of Norcross Peak.

~~14-4~~

607. Migmatite, much of it
fine grained with dikes of
Red Coarse granite, many
branching + veins (photo) 195/15
Strike 145° Dip V. Spec 2

5

I. R 3 Ott 69
70°38'S 72°01'E

I. R 4 69
do

photos · 195/16 colour
Nov M 801/7-9

Cleavage and twins of cpx as
described, many only twin
under, and so be distinguished
under in one plane. $\frac{a+b}{2}$
+ albite (spec 2), and
some tendency to discover
at acute angle. Specs of
overlying grains (spec 1) which
is dark, fg, and granitic +
cont. phases of brief,
Parallel in, Above, by Grain
Cracks on film. Sp. gr. by
G.S. 3.20 at 50°.

603. 20× north, granite
fraction more common,
thin coarse + fine banded gneiss
having both of hornblende
(plus ~5% < 1 mm, schist,
[illegible]). Some [illegible]
Biotite schist, nearly vertical to

I.R.S 69
70° 38'S 72° 01'E

when dried, called small pellets of lead, used by old gun.

604. C.V. Crude ferric oxide - done thoroughly, but dip needed at about 7:0. Fine feeling with a hint of sharpness, plenty of body. Not very rich, like 602. Another to match some in small quantity, e.g. tablets of Fe, powder, Fe dust. Used Fe. Dust in the form of a simple of iron with straight right angles to it of the left. Spec 5.

Rocks generally are not dotted, and pure is common, Mostly brecciated

I.R 6 69 28 0150
70°38'S 7°01'E

10 cm, down to silt size. not much larger than 1 cm on flat surfaces. Large stone polygons on flat surfaces, 2 to 4 meters across, some sorting of coarse fines around edges.

Poor glacial polish on some clasts, and faint striations seen. Most surfaces of clasts and fragments covered by brown limonite, and some weathering esp of coarser felsic types. Cummingtonite stains on some clasts of more mafic types.

Large fresh spec of typical rock
Spec 6.

∞

I.R 7 ~~SR~~ 69

605–609
See p 69 also for locations.

605. Large outcrops East side of Creek, at middle of course.
Magnetite, Cerro Mourinho. Poland, Alt. about 2000 m. Light + dark in irregular patches up to 10 cm, light ones in lenses, dark in thin. Dikes of old gen + both [illegible] but more common in dk. Alt 1120, dip E at 60°. Pyroxite light + in places. V. Cg. Light [illegible] not common. Edge of [illegible] rock (schist) Alone whole dk. in part. Dikes as at Mourinho Poland. Polygons similar, but dark larger and rudely tend to run in lots occupied by bands 15-20 cm. at angles.

1829 see next page

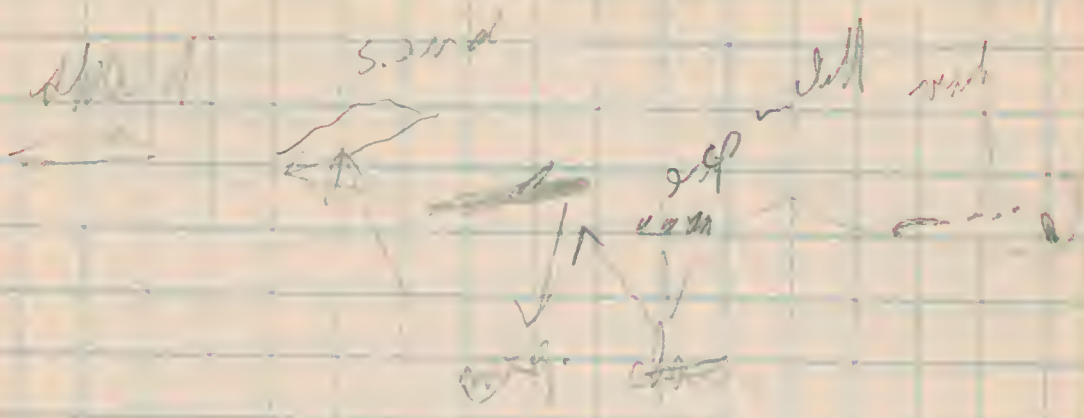


Photo 1958
M 861/11, 10, 11, 12, 13

SPAYD ISLAND

505. Island 6's, coast of west end.
Rocks weathered light
olive to buff cg. from
fg. above & brick in fg. BOF
& small 2's visible in
parts. Apex of granite apex of
the apophysis and of fg. facies
(after cg.) from 20' away.
Area as before, at Morsinho
Is.
Strike N 160 dip abt vert.
Some folding in bands of
fg. fg gneiss in cg.
19518

Northern tip of Gillock,
at shore moraine
505 North end of outcrops on east side Gillock Is.
wide pebbles
Porph chem & fld fldrs
U on cgl. + fg. pebbles.

1R 8 69
70° 35'S. 72° 05'E

1R 9. 69
do

1.R10 69 10 9.
70° 28'S, 71° 59"=

1.R 11. 69
70° 30'S, 72° 01'E

Narrow, uniform, no
divisions fairly sharp. 10.
Fine and, but some clusters of
(some glassy). Dark
ash, very slightly
at (with trace of lt. ash)
also N.W.O. Cf. Photo close up
19519

608. Mixed ends of small
scattered crops, length
chain like 607. Fig 11

609. Tuft ends of large
open pattern 607 - big.
Like that but with
ashes - no crops, but
no dust. Almost
mainly fine, as type c
fibrillations. Shafts of diffuse
with lineation. Fair
dust

I.R. 12 6928

70°18'S 69°47'E

71

195/20 Photo of [illegible] from Cami
[illegible] Creek, [illegible] ft.
[illegible] unidentified graph
[illegible] and [illegible] path
[illegible] thin [illegible] up to 5
cm long, [illegible], in a
matrix of [illegible], [illegible] & [illegible].
Thin [illegible] of [illegible]
an [illegible]. Apic 12, Photo
[illegible].
Some thin [illegible] graph
[illegible]. Of [illegible], up to
[illegible] cm [illegible] & [illegible]
[illegible].

511. Group of Cami-[illegible]
[illegible] with
M8611/14 BW photo of [illegible] & [illegible]
[illegible] [illegible] [illegible]
M8611/15 BW photo of [illegible]
Cami [illegible], [illegible] & [illegible]
Two [illegible] each of these two
[illegible] to be the same, [illegible]

12

Photo m861/16
17

color + texture. Rock is
uniform on both o'crops
visited. No signs of tectonics.
A few faps, proximation of
light sand of quartz.
No fossils. Can support
a simple building
and a few plants. Crumbly
surface, & consolidated
granite & fluid crystal
structure. BW photos on
west o'crop. M861/16

BW Burial photos Gamma Pavonis Fossae.
M861/17

Photos

18 Jan 1959.
To Beaver Lake.

~~M 18~~ M861/18, 19, 20
Photos in B+W (3) and
195/25, 26 Color (2) of PCM. Photo of
Joe in ice (B+W) SE of
Selden Pass. M861/21
Photos of [illegible] Beaver Lake
195/28-30
M861/22
Photos of [illegible]
[illegible] 1961 1, 2 M861/25-27 M861/30, 29
[illegible] 1961 6
Photos of from air.
Photo of west side of Gilbert from WSW. (B+W) M861/31 M861/32
Mitchell Hut from SW. (B+W)
B+W of Lagunas (2) and view
of Mitchell Falls. M861/33
B+W of Alpine Lake from W.
M861/34

I.R 13 69 Gnt Qtz feldsp gneiss

I.R 14 69 Mafic gneiss

Giz. Gotay Penin.

No outcrop. Loose blocks of feldspathic ~~quartz~~ 1 cm diameter of pink garnet, probably altered to pale green mineral. Some banding up to 1 mm across, most rather irregular, and lack of foot structure. Many have elongation (spec 1.R.13) which some banded specs suggest may be the result of intrafolding, as some of these are very crumpled. Spec 13 is fairly typical.

This gneiss is banded ~~c~~ more mafic rich (spec 1.R.14) ~~cont.~~ ~~is~~ representative of most mafic variety seen. Bands of mafic and felsic tend to grade one into another, and ~~dark~~ dark bands range from 1 cm upwards in thickness. Thickest seen was about ½ metre, and

Box 2029

I.R 15 69 Alexis

I.R.16. 69280151

Metamorphosed basic dyke.

weathered banded mafic & mafic, mafic mineral alters to be avg. garnet, now altered to chlor. & ser. in part.

Rocks are much fractured, but from a banding of light and dark can be seen, avgs. they are mildly in place. Mostare [illegible] into rough stone polygons. [illegible] spacing.

Cutting these are dykes of dolerite (spec I.R. 15). Some spread of fragments, but width of dykes probably 2 or 3 metres. Also much jointed & fractured. Trend mostly abt N-S line, but some trend at acute angle to this. Rock is f.g. with dark phenocrysts. Spec I.R. 16 for one dyke.

Near intersection of two dykes rock most platey

Box 2429

✓ I.R 17. 69

Green with dark mica
porphyroblasts

of c.g. chloritized dark min.
(Spec IR17). Spec contains
fragment of dark mineral also.
This type seen only at this
spot, at intersection of dykes.
Gives impression of fragment
of basification by dyke magma.

Several photos near and
south of here, going from S to N,
and looking N.

Nodal Zone 3

613. Near south end of zone
rock mass.
Rain conditions - no creeps
but banding visible from air,
all mineral bands.
Quartz pod on is granitoid,
pink, looks very like IR13,
in mineralogy, but without

✓I.R 18 MB 69 280155
Gnt Qtz feldsp. gneiss
Metapelite.

✓I.R 19 69 280156
Mafic gneiss – Calc
Silicate

✓I.R 20. 69
Mafic dyke

Box 2429

marked transition, and by tendency to form tufts of hyphae up to 2 cm across. (Type I.R. 12 shows this type). Young hyphae with a bright granular look, and some times a staining.

A few swollen cells, more usually empty, more rarely with (Type I.R. 19). Dark material often isolated to form resin. Thin type also has thin, straight hyphae.

Hyphae of Sol. also (Type I.R. 20) but finer, and rarely forks, with fewer tufts. Also but more rapid fusion. Cord again also about rarely. Surface of cultures also acervulus, but may be result of washing of stroma.

Amphibolite

I.R. 21 69 280157

Box 2429

I.R 22 69

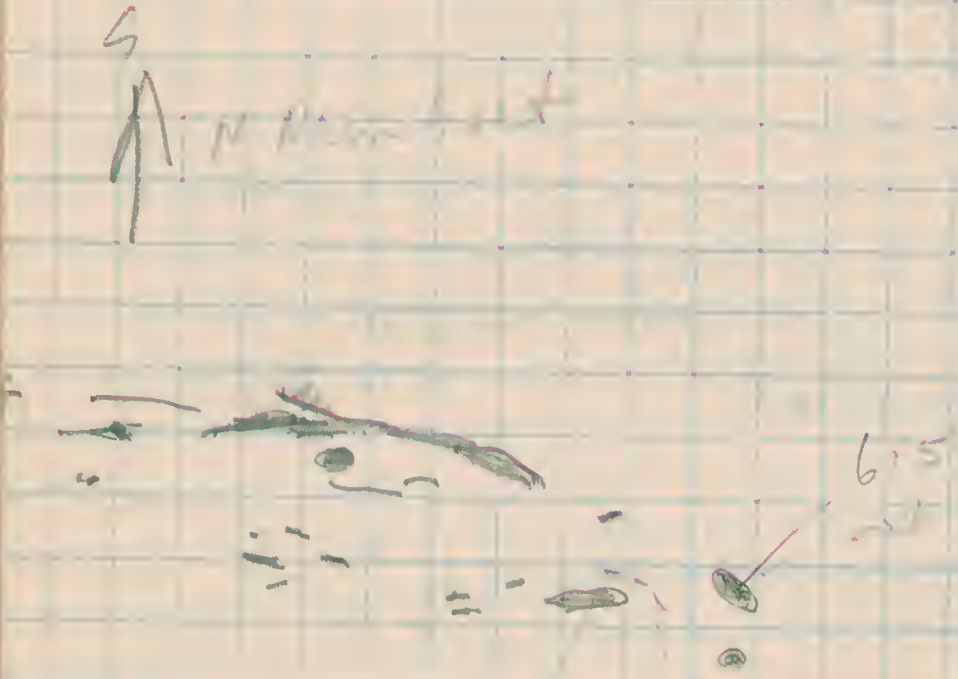
Qtzo feldspathic gneiss

I.R 23.69

Dyke – Mafic

Box 2429

6:4. South end of mass.
Same conditions again. Seems to be more variety of types between two extremes of felsic and mafic. At one extreme is amphibolite (spec I.R 21) at other extreme is felsic. Spec 22 (spec I.R 22) has some altered mafic, and also stringers of quartz, which seem more felsic.
Types again, but not many. Rock is like I.R 20, & mafic phase. (spec I.R 23.)



- I.R 24 69280158
- I.R 25 69280159
- I.R 26 69280160

19 Jan 1904.
E. on Hot side of Swamp.

615. Out crop of northern Bennett Hills; at NW end of hills
Little o' crop, but plainer. Mainly mg. cg. shot full quartz & garn + some hist, biotite schist (spec 24) some bands of cg. garn granite (spec 25) probably a meter or two thick. Parts very dk mica. Some bands mg. Also band of hist 1 m thick of hist full quartz mg garn (spec 26) Strike NO 10 mag 40° E. Possible very tight folding in area of the bands but not enough to tell for sure. Some faults, fair probability

✓ I.R.27 69

thin band, of gam brittach, eg.
One patch of brittach.

6.6. Nth to 22nd. Darker deposits. Mainly topsoil like spec 25 and spec 26. Lots of pottery, but abraded brittach with peas (spec 27). No very cg. rocks like spec 26 often, but some of the finer material present. No archaeology - all disturbed.

Photo and 91/3A/2010

6.7. Sand gravel from 22nd to bedrock.
Rock is clean lime with rounded clasts, very weathered little exposed
most of surface is [illegible] 1 or 2 cm across. Patchy dried

I.R 28 69280161
70°12'S 72°31'E

✓I.R 29 6928
do

I.R.30 6928
do

✓I.R.31. 69280162
70°08'S 72°38'E

Photos 196/9,10.

polygons up to 1 meter across in fine material in valley. Dyke or sq. basic aplite strikes abt N50. width 1 meter abt 2 meters.
Apex of dyke (spec 28.)
Apex of chan (spec 29.)
Photo (19619) of slab of chan and dyke abt, looking N
19619 with dyke in middle.
Chan. 3 apex of fol. Lit fol & dike, finish area, like to chan most places - may be dyke or more elongation of fracs along grain (spec 30)
Also a few fracs of aplite.

✓ Branstetter Rock

60 Width of chan at N of Branstetter Prom. Chan as at Jamaica (spec 31).
Very slight permit. of fol

I.R 32 6q280163

I.R 33 6q280164

N120, by alignment of bleb, but there's also a good joint there.

Other two joints here are rim from air. Possible dyke at end of one visible bedding with indentation of [illegible] half of mass.

619. S. end of Mitchell Peak, [illegible] grain, [illegible] + recrystallized [illegible], N 90, [illegible]°S.

Cut by dyke of mg [illegible] at N170 dip W 82 (5°; 15 cm wide. (Apex 32) ± 30 N [illegible] part of [illegible] cmg [illegible] by [illegible] of felsic [illegible], & the weathered (Apex 33) joint rather [illegible] [illegible] due to

- I.R. 34 69280165

- I.R. 35 69280166

Photo 196/12, 13.

granular quart. Str N40,
196/12 dip 45°S. Photo ??
Cut by few thin (1-3 cm) qtz
fld veins, mg, & small
quart flakes. Str N135 dip
50°S. A few small
lots of lt gy fld fg
gg, pink fld, and a
few thin qtz-fld veins, generally
concordant but random
slightly. Fld up to 4 cm
long, blocky fracturing
fairly sharp with veins
from 1 cm to 15 cm.
196/13 Photo. Spec from qtz-fld
f.g. gr ½ mm (Spec 34)
Fault with qtz in gouge,
grains below a little clay
and quart sand + some
mg. veins up to ½ cm
wide of qtz granules
(Spec 35). Dip + str ...

24

Photo 196/14.

near west edge, block of qtz coloured mg but of grn., whispy banding, cont. vein of slightly coarser qtz fsd bust, of each without sharp margin to gneiss green. Scattered grain in gneiss. Veins are rather up to 5 cm wide, have same str. as gneiss but ? different dip. Photo

19/6/14

i.e. McKastle Hills (S.E)

620 Central Mistichelli Hills
Sim. to 619, but gneiss is less coarse. Still a few but such bands, and qtz bands of bun. gneiss still present.
Str. of most recent of gneissic foliation — N 35°, 20 W.

Four planes hard to make out and dip may not be reliable — seem to be a bit less, possibly towards NW part of gp. Grain becomes more fine grained (Spec 36) through banding & not so sharp. Gen. dir N 340, 20 W. Occ. inclusions of eq. grain & fold nest, & pebbles in band. Spec (Spec 37) cut more or less || banding.

Towards highest pt (banding to highest pt of band 360° M and to centre of N.W. hill 113° MAG) fine becomes more common and banding more marked, tending to felsic lenses in dark rock which is v. finely banded

✓ I.R 38 69

Photo 186/15
M 863/16, 17.

Fingers of cg. flow reach along some lands, to N 30° 30 W. Specific is tip tilt of summit, except Yet. Summit rocks have a little more dirt. Spec of summit rock (spec 1A 38).

1961/15 Photo of mill Creek. Summit with a little cover from ash on east side of ridge

After cg. pics, I go E, and at Yellowhead Pass a mile due S of V. Reindeer.

M863/16,17 Photo of area of 620 from west end of 621 from S.

Not much visible material of 61 cg. in moraine

✓ I.R 39 6928068

I.R 40. 6928069

McKaskle Hills – NW

6zb White Bluff near NW corner of hill at edge of shelf. White rock is of fine grain sandstone and a few thin layers rich in iron & cont limit. Layer only a cm thick, with lots of typical small fossils in it. Rock also

10 cm

with no sign of iron where last sample. Strike of rock N320, dip 50° W.

A few yards of limited outcrop, badly thinly bedded, yellow clay 1½ m. thick (Page 40)

Hill to north 28

he is busily smelt rock
& more likewise boats.
Rock is of granite type.

Western side of valley runs
below c. mg. finely banded
gran. but of fold. pinch
& bifore, often in parts,
here parts in between
sheared. Rock can't not
high grade ore. Bands of
light gran. fold grain
seem to be subhorizontal,
but much rise.

Whitsunday Nth

O. crop small n. to. NE.
Two systems of minor cops
N. Dyke [illegible] some white.
white band to [illegible].
Fine str 120° T, folds
dip from 30 to pitch
at lightly 5(?)

✓ I.R 41 69280170
69°55'S 73°12'E

✓ I.R. 42 6928
69°55'S 73°13'E.

Photos
196/16
MB63/18
863/19

10/16

B+w + colour photos of whole mine & surroundings. Pile of Aboriginal Artifacts

5. (Australia II – Victors!)
(Poms – Last!) Cheers!

Hollow Hills.

622 Highest part of mine, with NE views of hills, mountains and possible lake given by along 95 Rain N20. Just below (Page 41)

Rising ridgeline behind, at 2 o'clock, N30, 20E, 3/4 of the way

Towards SE here – fine [illegible] occas bursts of eg red flowering Gum (VI, and Quiet becomes more [illegible] Spec 100 from summit (Spec 42) 30

abt N 360°, 20 E. Qz vein
40 cm wide, concordant,
white massive Qz.
Sulphides SE end, but a
little more common, abt
10-15% of rock as whole.
Sulphides occur in bands,
even distance of ~ abt 2
20, then ~ 1" of fractured, whe
crushed rock, Qz tends to
form whispy lenticular
zones wide abt 10-15 cm
long. Some sq. inches,
very fine grained, of Qz,
+ felsic, abt 20 cm thick
in places.
Patches of coarse fsd in
one spot, patches up to 5
cm across, x's up to 5 cm.
Plag in patch of 7 Qz.
Felsic patches tend to grade
into sq. rock containing the

I.R. 43 6928
69°55'S, 73°13'E

I.R. 44 6928
do.

I.R 45 69280171
69°48'S 73°35'E.

Photo 863/20

Occas. white fine-grained quartz
vein. Rare veinlets of pyrite (specks)
up to 5 cm wide, but mostly
invisible even within veins.
Abt concordant.
8631/20 Phase of [illegible] porphyry
dike rock (specks).

623 Albion Mountain
Quartz
Tabular body porphyritic granite, 9'
[illegible] of porphyritic phase. Locally
to 3' [illegible] up to 5 cm long.
of [illegible] (specks)
Two varieties seen in situ

Pink [illegible] (specks) with
bull. (specks) and biotite.
Common

V. I. R 46 6928
69°48'S 73°35'E.

Photo 863/21.

Hunt of John 1120, 205.
Split in pole elephant
in that it has stuffed
kitten in from pinned.
Images of Jedi knight made in
one night - ? xenolith
(Spec 46).

P63/21 Pants brw

V.R. 47. 6928
69°46'S 74°26'E

20 Jan 1969
Rbts Ant 23 Run 312/2103
62 S. Mt. Caroline - Mikkelsen.

Rocks at south end are finely banded pyroclastics, mg, eangram, with a thin white basalt bedding. N 340, 75° E. (Apic IR 47). is typical. Here & there are bands rich in pyroxene, 1/2 cm wide, and a few, 1/4 - 1/2 cm wide, of basement ats, each invasion in with and persistent.

Also a few bands up to 4 cm of c. mg ats & fld. Ats. Fld bands (2 or more) run to the [illegible] in [illegible].

Dim rocks across to west, north side of summit plateau, and strike & dips here are same as on west.

Dental discordant - Mrs

of cg qtz [illegible] brown and abt 2 cm across widest vein 1 metre, but several others abt 20 cm. Junction ± gneiss

A few ~~veins~~ planes of greyish white qtz.
Hint of very tight folding of gneiss in places, possibly on horiz axes.

625. Junction of two mths east of Mt C.M. (Holden Pk) 91/3B/2060
Centre of north side of northern path
Interbedded pyrox felsic, ~~pelite~~ mg equig, pelite banded as on Mt CM, others with bedding (up to 15 cm) bands rich in pyrox.

✓ 1.2.4.8

✓ 1.2.4.9

[illegible] Qtz
Qtzite in part, [illegible]
due to veins in parts of
Qtz + fld, mostly coming to fg.
Sedimentary lends to be irreg,
this also giving a [illegible] coarse
content not high.
Also N350, 70° E, possible [illegible]
some part of Qtz fld in two
pegs lin, Hornf. [illegible]
plans confined to certain
bands of Qtz fld grains,
and lin visible only in
parts. Some bands of Qtz
grains pos. Qtz, these tend
to be [illegible] in a matrix
of fg qtz fld gn (~~[illegible]~~?)
and pyroxene fld (~~[illegible]~~?)
former Qtz appr. sedimentary,
latter [illegible] fld.
626. In saddle Qtz. two hills.
Rocks described as above
N350, 20° E. Qtz 60%, Q =

IRU? 6928
69°45'S 74°30'E

IRU9 6928
do.

IRS0 6928
do 69°44'S 74°25'E

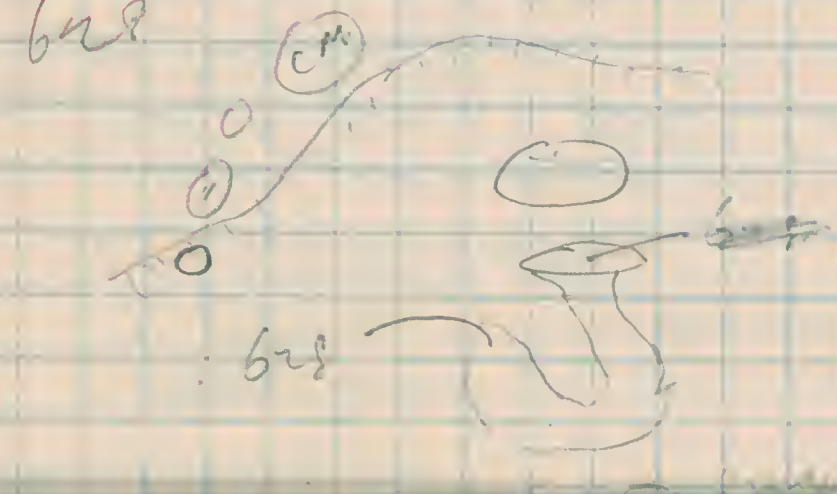
IRS1 6928 0172
do.
69°44'S 74°22'E

(Spec 48) dint. c dia is
loc 625. And pyroxfld
gn is at 625, some bands
(up to 20 cm wide) up to
80% pyrox. Spec (sbcvq)
of typical pyrox-fld gn.
Some bands 5 cm wide
of cg. fld in p.F gn. Lens.
Some of p.F gn is vein
stuff, other fg. hdtd. GDF.
Bands also to be 5-10 m
wide.

Valley dist. peaks is glacial
much moraine on dist
side of lip on west side of
valley.

6-7 Possible fault through valley
and extends of dist hill,
trend abt. 180°
Both types of gneiss here
& network of pegmatite dykes

1.250. au numéro pair



wires & [illegible]

6-28. Island N of mt cm.
Photo 9113B/2068
Strongly banded siltstone
in L. Chapman - Unit folded in
(Spec 12 51) very irregular
bedding. Bands ½ - 10 cm
cont 50% Grit, silt & clay
free of dirt or cont up to
about 10%. Edge of bands
hard & sharp. Very fine
bedding - bands or sub
horizontal surfaces, less
hard than rest. Some
parts cont wires, pyrite
coal & less hard & less
consol. bands of pure pyrite
0, 1-2 cm wide.
1 Spec QF and 4 QF Specs
Coll Unit 627

38.

I.R. 52 6928073
69° 44' S 74° 25' E
I.R 53A } 6928074
I.R 53B }
do

I.R 54 6928075
do

[illegible] mix [illegible]
& more grass and 2% of same
mix (Spec 54) done in bands up to
10 cm wide 20% gran and
fed + dark in.
Same GQF fr. coat the
layers of mat (Spec 53 A+B)

Str N160, 20°E.

Some bands of PF= fr cont
20% per m, and fm
bands of ~~GQF~~ mesh i 20%
gran (Spec 54.).

Binding of GQF grain
slag by using in Spec
& patches of woven matting

Width of mats - bands from
20 cm to more than 30 cm.
Some eg. 2 of pieces
in width & then up to
20 cm wide

Photos 863/22, 23
196/17, 18.

M 863/22

BW of [illegible] + thick, coarse gl. fgr
196/17. black shale (clay)
+ btw + col of fossil
gg fgr.

863/23
196/18

One part of GP: [illegible]
80% gl., hard in a
hard, fine to [illegible]
matrix.

STROVER PEAK

6-9 Navada Ls Ant 83 Hum 38/2096

Pyrox. field on ridge with
boulders as on Lizard,
weathering up very acute
fragments

40

I.R 55 6928
69°42'S 74°07'E

I.R 56 6928
do

I.R 57 6928
do

Mt. C.M = Mount Caroline Mikkelson.

Specimen of [illegible] from [illegible]
as [illegible] 3. by 2. 3 mm
wide. Seems to be [illegible]
Also N 310, 20° E
[illegible] of 2 mm (Plate 55).

627A. QF + GQF as an island N
of Nat Cm, ~~but~~ most common
stained, but with more
common in part. Left
of typical (Plate 56) which
is almost typical of 627
Some bands up to 2.5 cm
wide pure QF or QF c
grs. of [illegible] and/or garnet.
Left of pink QGF + PF 2 mm (Plate 57)
Single dike trending
Alt N 210 on pink, and
1.00 m. wide, GQF on the
margin it seems common,
on Plateau sand, c general
trend alt N 210. And with

630 Palmer Pt. 8-13-1970.

Massive q. p. Biotite Gneiss (Spec 58) Lone Collins Mtn, feldspars forming 60-70%.

Dyke of pg, 25 cm wide, E and W sides, Contact white pg, and of trending to aplite into center. Less than 5% Pg, pink fld, and Some garnet, Like matrix of gneiss. Irregular, sharp. Joint + Bed Contact N20, 15°W.

Also a 5 cm. 3% fld-mu E aplite dike 5 cm wide, Unit conc Alum mtn, cut by above dyke. Trend N220, 45°E.

42

2nd Quadrant plane.
Fault plane strike
dist N290°. Dip mod to vertical
Groups of striations trend and
traces of plane parallel.
Lineal lineation trend N25°
plunge moderate, and out of
plane of photo (Appx 5/9).
Direction of plane plunge
plg core dist 25 cm wide
as much as 3 cm of altered
along center

Quartz of Pegmatite (Appx 6)
Only slightly more resistant

Other than displacement of
country rock by faulting, no
alteration, but impossible
to be sure.

All outcrops of Pelona Pl 43
Schist are fractured

Hamph and related + tremolite
Holden Peak west to last
outcrop east of Palmer Pt group
from air look like banded
BQF and P.F. Inclusions like
Holden Pk etc. (see photos)

[illegible]
[illegible] 83 [illegible] 10, [illegible]
S21, ^ Porph. [illegible] [illegible]
[illegible] Bluff [illegible], but [illegible]
not so uniform. Felsp
phen [illegible] up to 2 cm.
in places, up to 5 cm in
many places. Porph. content
also irregular, 90% in parts
50% in others. [illegible]
porph. 50–70%, and ave.
grain size abt 5 cm, [illegible]
[illegible]. [illegible]
[illegible] rich 20–30%
[illegible] [illegible] [illegible].
in [illegible].
[illegible] in [illegible]
[illegible] [illegible] 1/360,
[illegible]
Lines 25 cm wide and
2 meters long, N 80° [illegible]
[illegible] [illegible] [illegible]

✓ I.R 61 6928
69°43'; 73°45'E

I.R 62 6928
do

Cont. [illegible] field [illegible]
[illegible] (spec 61) of N. [illegible]
[illegible] from [illegible]
(chert 647.)
632. Rock at S. end of [illegible]
is [illegible] 70%
[illegible]. Also (spec 62) of
[illegible] [illegible] and
scattered [illegible] [illegible]
small grain of [illegible]
[illegible]. Ten [illegible]
[illegible], mostly spherical,
and 2 [illegible].
10 rods to west is
vein of qtz N 20, 60 W, dip
25 [illegible], 1 ft. at [illegible],
(K and [illegible]) two feet.
Vein of qtz [illegible]
[illegible] [illegible] [illegible]
N 66, 10 N.

I.R. 63 6928
69°43'S 73°45'E

I.R 64 6928.
do

[illegible] [illegible]

[illegible] (cap) [illegible]

[illegible] [illegible] [illegible]

eg bist. rich [illegible] ē

[illegible] off [illegible] [illegible]

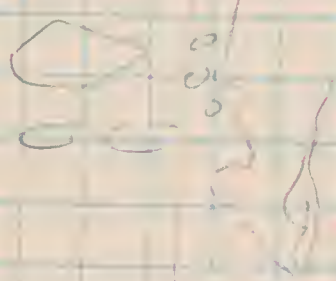
2-3 cm. [illegible]. [illegible] M150, [illegible]

[illegible] bands 1120, 305

and eg bist. rich band 1/280

at summit.

6-21 cont'd. Apex of what seems to be typical rich (Apex 6.2) [illegible] a band [illegible] at base of cliff, widening to 2 [illegible] at [illegible] of 5 m. Bist. rich ē few [illegible] at sides, [illegible] [illegible] [illegible] [illegible] in center. [illegible] [illegible] [illegible] [illegible] is flat [illegible].



24 Jan 1969.

Dst 40' at 1400.

863/25 Bow Station - fwd, from abm
Dst 8300 #

863/26 N. Mainbelt from abm

863/27 Vertical + S. Trust. from abm.

863/28 Bow N and Sidesh from abm
Abm subsurf.

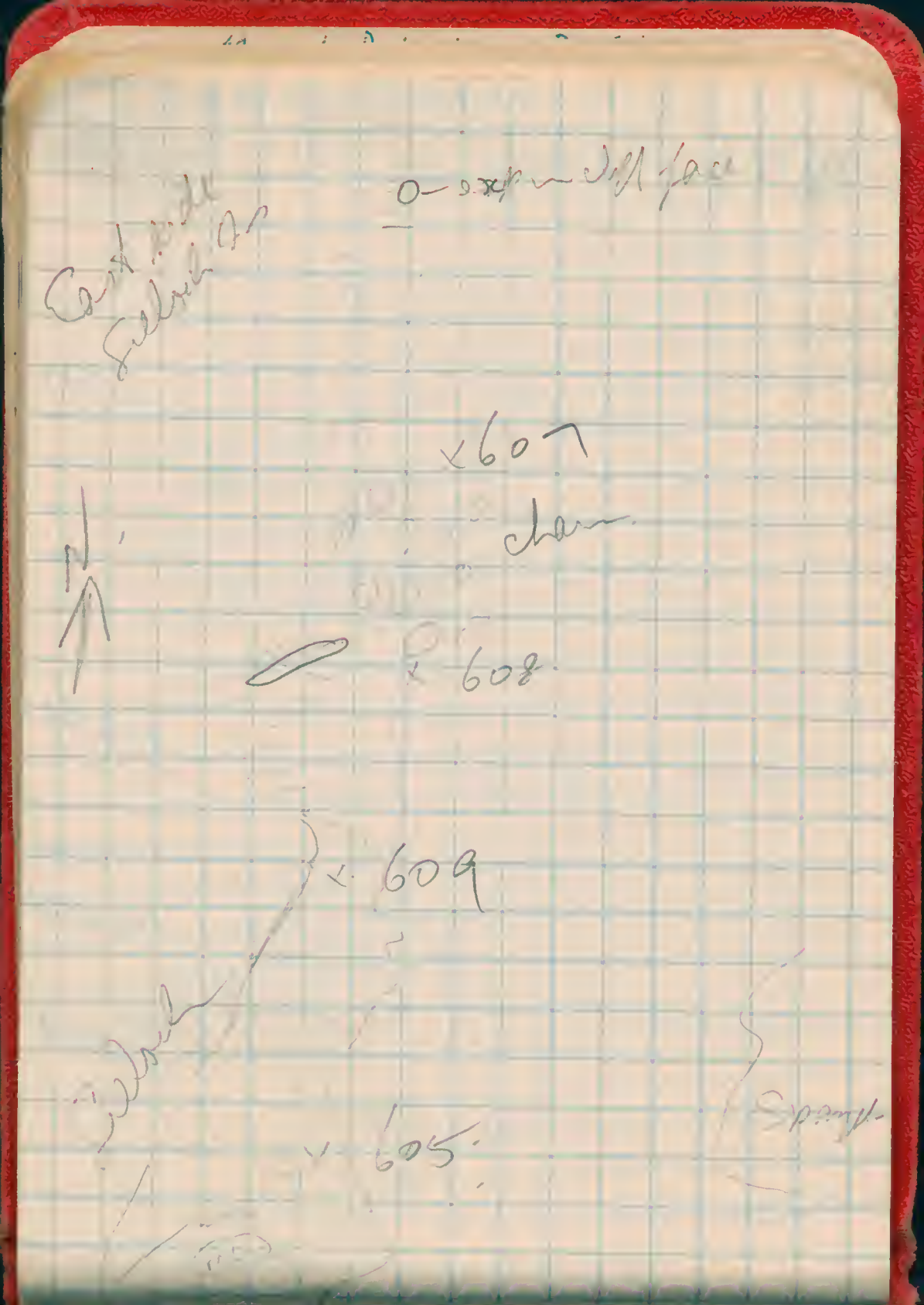
Dst 360 ft 1615.

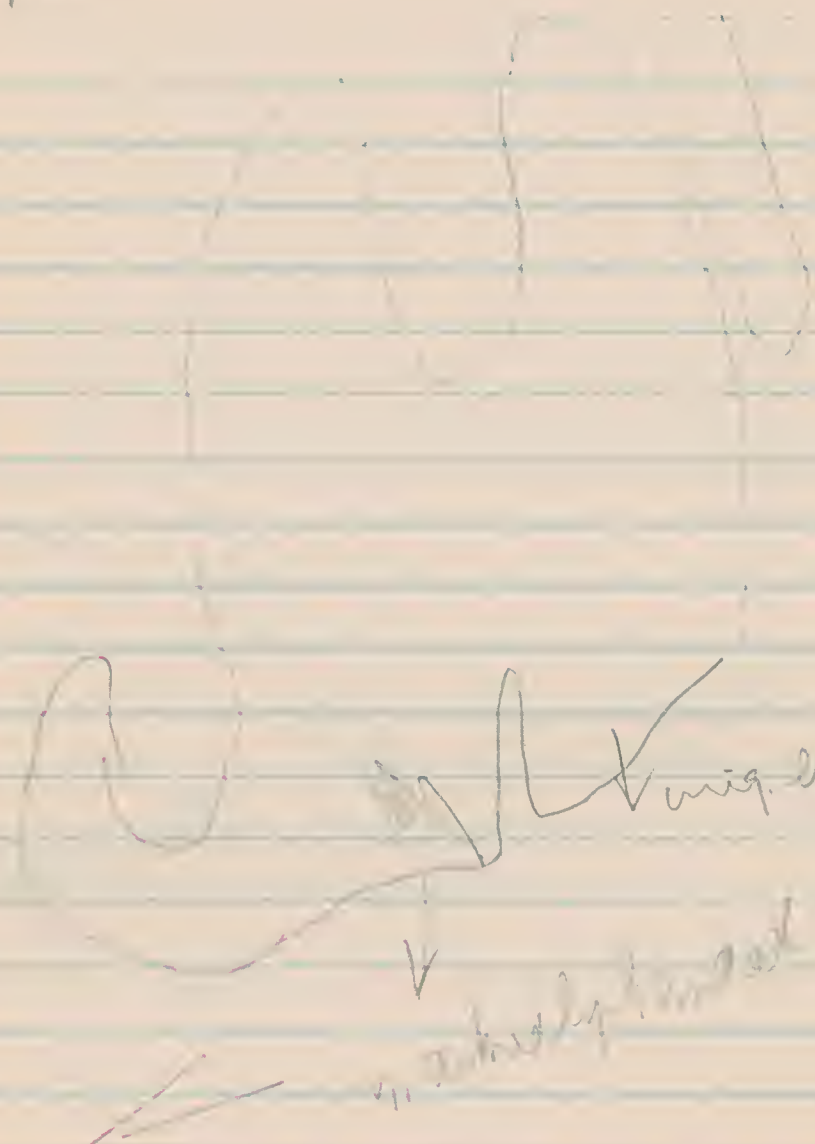
DG. 200°.

196/22-24. Close up of multishear NM, Quonset.

Dst 110 at 1705.

Bow of Hopkins Bank
MB63/29, 30, 31.
MB63/32. Bow Sidescan Echo MB62/0


×607
×608
×609
×605



NE line

I.R.67.
69°43'S 73°46'E

✓I.R.68.
do

✓I.R.69.
do.

2/11/69.

Altimeter 105 ft at 1350.
Photos 83/318/9086 115 ft at 1705
633 Lenoon Jr. country
rock appears to be similar
to porphyritic granite as on Mitchell
Jr, but very weathered.
Phen poor Mitchell type more
abundant than on Mitchell Jr.
This type consists of white
and pinkish crystals as large
as other types, but rather than
porph. type. No definite shape
seen - may be irregular.
Spec 6 (Mitchell type (Spec 67)
And of (porphyritic granite country
rock (fewer phen than Spec 66
(Spec 68) Masses of Mitchell
type are up to 10 m across.
Foliation (Spec 69) N200, 30W.
(Spec 69). Sheared, intruding
both types of gran. Dike

50

132

✓ I.R ~~1/9/10~~ 6928
69°42'S 73°51'E

✓ I.R 7.0 6928
do.

HTO 8090 ANT 83 [illegible]

6 [illegible]

Vein [illegible] dyke
[illegible] veining. Apic (Apic
76
13 2) of type [illegible] [illegible]
[illegible] on S side. On
N side of summit is aplite
as on Anzon Dr, here N280
30 N. 20° NW of summit is
2 dyke of hbl gran (Apic 70)
& [illegible] Hbl Biot tuff and
granite [illegible] [illegible]
[illegible] Contact is
N360, 10E, width up to 1m.
Dyke + chonfining, with
[illegible] of [illegible]
some of it [illegible], different
types tending to [illegible]
into another.

nearby is a xenolith of
creamy cg. Aplite and
dykes sharp edged, 15cm across
overall.

51

✓ I. R - 71. 6928
69°42'S 73°51'E

Photos 196/28
M80v11

[illegible] summit, but not [illegible] to 25 cm wide, some band not cut by dyke, some showing form, [illegible] pegmatite cuts up to 1 cm wide, not much but up to 2 cm.

196/28 M862/1

Photo (colour) + b&w.

Also one dyke N320 V, probably later than others.

NW of summit a dyke trending N300 appears cut by one trending 210°, and is in turn cut by thin felsic veins also trending about 240°; strike up to 2 cm. wide, dip 70 N. Just 240° trending dyke is here [illegible] pegmatite & quartz veins, as does appear for peg phase of other dykes.

Type of 300° trending dyke which contained porph (Spec 71)

Palmer Pt from Boat

Do.

Photo 83/3?/9090

6'2" [illegible]

Exposed purple [illegible]
e.g. Light Dyke [illegible]
abt ½ inch wide. One
such Dyke [illegible] N-S
cuts a mg-brn granite
Dyke [illegible] N-S, abt
10 cm wide.

Gen. dom. jt abt N-S
in parts - Mod. dist &
weathering - abt 1 joint
? Jn ???

Gen. cg aplite dykes &
very few of the mg-brn granite
dykes. Aplite [illegible] abt
abt N-S

Then [illegible] with hand abt 2 m wide &
brn-rich [illegible] up to 5 m
wide cont red-purple [illegible]
& bands of purple [illegible] in
which purple [illegible] are embedded

L.R 72 69

L.R 73.
69°46'S 73°45'E

N 350. V. Prairie a. above. Has 10cm spike Bighorn along S. side -
Spec (Spec 72) of basaltic gran, typical except plag. is no larger than average.

V.C. pig, cond N90 Trap of Bull's white ash, probably abt 20 cm wide.

photo 83/318/9086
6-36 N Saddle SE of Middle Lambing Bluff.
Rock here small-grained but not coarse, more like the calving Bull on N. Spec of typical (Spec 73) V.C. pig dyke 1 cm wide, N 45 W., [illegible]

✓ L.A.T.
64°46'S 73°45'E

Strike of bedding [illegible]
[illegible] N 120. (Spec 1. R 74)

Chiefly N face of ~~mountain~~ ridge S of middle fork, [illegible] porphyritic Conf. Unit (3cm) bearing N 220 W. One feldspar, 5cm long & 2cm wide, zoned & twinned, [illegible] Also 3mm wide. Residual [illegible] Area

Area along base of ridge bearing N 120. Sub. Gran. with mylonitic veins. Area of about 2 m. wide. Unit of shearing - [illegible] in middle Dec

✓ 1. R 75.
69°46'S 73°45'E

Photo 23/318/9006

6-7 [illegible]

[illegible] amoeboid [illegible] are common. Some purple [illegible] from some [illegible] in places containing 60-70% but 40-50 in places, these tending to be [illegible]. One variety grades into another over a distance of 1-2 cm. Apex of phenocrysts type (Spec 1A-7)